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APPLICANT
Nishimura et al

FILING DATE
August 22, 2003

GROUP
3746

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 9 8 4 9 7 4	1/91	Naya et al			
	5 9 1 0 0 0 1	6/99	Takahashi et al			
	5 4 0 1 1 4 9	3/95	Tsuru et al			
	4 7 7 0 6 1 5	9/88	Fujiwara et al			
	5 2 6 3 8 3 2	11/93	Yamaguchi			
	5 2 4 6 3 4 9	9/93	Hartog			
	4 7 6 7 2 8 4	8/88	Shiinoki			
	6 4 6 1 1 1 2	10/2002	Ohta			
	5 8 3 6 7 5 4	11/98	Ozaki			
	5 2 9 5 7 9 8	3/94	Maruyama			
	5 9 3 8 4 2 0	8/99	Teraoka			
	5 4 5 4 7 0 0	10/95	Iguchi			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	5 9 9 3 9 8 9	5/84	Japan			X	
	3 1 5 1 5 9 2	6/91	Japan			X	
	6 3 4 6 8 8 1	12/94	Japan			X	
	4 3 6 5 9 8 5	12/92	Japan			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Shigley, Joseph E., Mechanical Engineering Design, McGrawHill, NY, NY 1977

EXAMINER

DATE CONSIDERED

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